

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A method for verifying a location of an area of interest within a sample, the method comprising:

 locating a datum mark on the sample;

 identifying the area of interest within the sample;

 determining the location of the area of interest relative to the mark; and

 relocating the datum, wherein the location of the area of interest is verified if a dimensional error in locating the datum relative to relocating the datum is less than a tolerance value.
2. (Previously Presented) The method according to claim 1 wherein the identification of the area of interest within the sample comprises optically scanning the sample.
3. (Original) The method according to claim 1 wherein the tolerance value is between about ten microns and one thousand microns.
4. (Previously Presented) The method according to claim 1 further comprising:

 identifying a plurality of areas of interest within the sample; and

 ranking the plurality of areas of interest in an order.
5. (Original) The method according to claim 1 wherein the sample comprises a cytological specimen deposited on a slide.
6. (Original) The method according to claim 5 wherein the area of interest within the sample comprises an abnormal cell.
7. (Original) The method according to claim 1 wherein the sample is mounted on a stage.

8. (Previously Presented) The method according to claim 1 further comprising rejecting the sample if the location of the area of interest is not verified.

9. (Previously Presented) The method according to claim 1 further comprising placing a visible indicator proximate the area of interest identified within the sample.

10. (Previously Presented) A method for verifying a location of an area of interest within a sample, the method comprising:

locating a datum mark on the sample;

assigning a reference coordinate value to a location of the mark;

identifying an area of interest within the sample;

assigning a coordinate value to the location of the area of interest; and

spatially relocating the mark, thereby determining a spatial offset value of the relocated mark relative to the reference coordinate value;

wherein the location of the area of interest is verified if the spatial offset value is less than a tolerance value.

11. (Previously Presented) The method according to claim 10 wherein the first locating of the datum mark comprises centering the mark in a field of view of an optical instrument.

12. (Previously Presented) The method of claim 10 further comprising storing in memory the coordinate value of the area of interest.

13. (Currently Amended) The method according to claim 10 further comprising:

a) transferring the sample to a review station;

b) locating the datum mark; and

e) setting a coordinate system of the review station based on a location of the mark.

14. (Previously Presented) A method for verifying a location of an area of interest within a cytological specimen on a slide located in an automated cytological imaging system, the method comprising:

placing the slide within an optical path of the imaging system;

centering a datum mark on the slide within a field of view of the imaging system;

assigning a reference coordinate value to a location of the mark;

storing in memory the reference coordinate value;

scanning the specimen to identify an area of interest within the specimen;

centering the area of interest within the field of view of the imaging system;

assigning a coordinate value to the area of interest;

returning to the reference coordinate value location;

spatially relocating the mark; and

comparing the reference coordinate value to a coordinate value resulting from spatially locating the mark, thereby determining a spatial offset value of the mark, wherein the location of the area of interest is verified if the spatial offset value is less than a tolerance value.

C₁
15-19. (Cancelled)

20. (Previously Presented) An imaging system for verifying a location of an area of interest within a sample, the imaging system comprising:

an optical system; and

a stage movable relative to the optical system, at least one of the optical system and the stage being operable to position the sample in an optical path of the optical system,

wherein the imaging system is capable of spatially locating a datum mark on the sample and determining a spatial offset of the mark relative to a nominal position thereof.

21. (Original) The imaging system according to claim 20 wherein the sample is a cytological specimen deposited on a slide.

22. (Cancelled)

23. (Previously Presented) The method of claim 14 wherein the method is performed while the slide is continuously mounted within the imaging system.

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C2
C3
24. (Previously Presented) A method for verifying a location of an area of interest within a cytological specimen on a slide located in an automated cytological imaging system, the method comprising:

locating a datum mark on the sample;

identifying the area of interest within the sample;

determining the location of the area of interest relative to the mark; and

relocating the datum, wherein the location of the area of interest is verified if a dimensional error in locating the datum relative to relocating the datum is less than a tolerance value.

25. (Previously Presented) The method of claim 24, wherein the method is performed while the slide is continuously mounted within the imaging system.

A complete listing of all pending claims in the application, each including a proper status identifier, has been provided with this response. If the Examiner has any questions or comments regarding this response, the Examiner is respectfully requested to contact the undersigned at the number listed below.

Dated: _____

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Respectfully submitted,
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